

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Tim D Chheda (Reg No. 60,752) on 09/22/2008.

Please amend the claims as follows:

Claim 2. (Currently amended) A method for execution by at least one processor, the method comprising:

communicating with a first interface to identify classes and selecting at least one method of said classes for instrumentation;

installing hooks in the selected at least one method with instrumentation tools, said instrumentation tools reading and writing the classes in order to produce modified classes;

inserting instrumentation code in a bytecode representation of the selected at least one method without modifying a source code of the selected at least one method, said hooks enabling said inserting of the instrumentation code;

generating a wrapper method with said instrumentation tools that contain the instrumentation code and a call to the bytecode representation of the at least one method, wherein the instrumentation code comprises bytecodes;

executing the bytecodes during execution of the at least one method; and

generating a call, by the executed bytecodes, to a second interface wherein the call comprises information regarding the instrumented at least one method; wherein generating a wrapper method comprises:

renaming the at least one method from an original name to a new name;

creating a wrapper method with the original name;

inserting bytecodes into the wrapper method that when executed generate the call to the interface; and

inserting bytecodes into the wrapper method that when executed call the renamed at least one method.

Claim 4. (Cancelled)

Claim 5. (Currently amended) The method of claim [[4]] 2, wherein generating a wrapper method further comprises:

setting a flag of the renamed at least one method to private.

Claim 9. (Currently amended) A system comprising at least one processor implementing:

a first interface connected to a control object and configured to identify classes and select at least one method of said classes for instrumentation;

an instrumentation tool configured to install hooks that enable insertion of instrumentation code in a bytecode representation of the selected at least one method without modifying a source code of the selected at least one method by generating a wrapper method with said instrumentation tool that contains the instrumentation code and a call to the bytecode representation of the at least one method, wherein the instrumentation code comprises bytecodes;

a java virtual machine configured to execute the at least one method including the inserted bytecodes; and

a second interface configured to receive a call generated by the executed bytecodes, wherein the call comprises information regarding the instrumented at least one method;

wherein the instrumentation tool is configured to generate the wrapper method by renaming the at least one method from an original name to a new name, creating a wrapper method with the original name, inserting bytecodes into the wrapper method that when executed generate the call to the interface, and inserting bytecodes into the wrapper method that when executed call the renamed at least one method.

Claim 11. (Cancelled)

Claim 12. (Currently amended) The system of claim [[11]] 9, wherein the instrumentation tool is further configured to set a flag of the renamed at least one method to private.

Claim 16. (Currently amended) A system, having at least one processor, comprising:

means for communicating with a first interface for identifying classes and selecting at least one method of said classes for instrumentation;

means for installing hooks in said selected at least one method with instrumentation tools, said instrumentation tools reading and writing the classes in order to produce modified classes;

means for inserting instrumentation code in a bytecode representation of the selected at least one method without modifying a source code of the selected at least one method, said means for installing hooks enabling said means for inserting instrumentation code;

means for generating a wrapper method with said instrumentation tools that contain the instrumentation code and a call to the bytecode representation of the at least one method, wherein the instrumentation code comprises bytecodes;

means for executing the bytecodes during execution of the at least one method;
and

means for generating a call, by the executed bytecodes, to a second interface wherein the call comprises information regarding the instrumented at least one method;

wherein the means for generating a wrapper method comprises:
means for renaming the at least one method from an original name to a new
name;
means for creating a wrapper method with the original name;
means for inserting bytecodes into the wrapper method that when executed
generate the call to the interface; and
means for inserting bytecodes into the wrapper method that when executed call
the renamed at least one method.

Claim 18. (Cancelled)

Claim 19. (Currently amended) The system of claim [[18]] 16, wherein the means
for generating a wrapper method further comprises:

means for setting a flag of the renamed at least one method to private.

-- END OF AMENDMENT --

2. Any inquiry concerning this communication or earlier communications from the
examiner should be directed to ERIC C. WAI whose telephone number is (571)270-
1012. The examiner can normally be reached on Mon-Fri, 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng - Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meng-Ai An/
Supervisory Patent Examiner, Art Unit 2195

/Eric C Wai/
Examiner, Art Unit 2195